Version of the game used:
https://archive.org/details/battlefield-2_202509

This is how i got the game working, with the AIX mod installed, under Linux Mint 22.3

Install the AIX mod (core mod files first and after that the map files) with wine (i used wine-staging) making sure to point the installation directory to your main Battlefield 2 directory.

Before playing the game there are a couple of things you must do.
First open the "reg_fix.reg" file with a text editor (the standard one in Linux Mint, xed, will do just fine) and modify ALL the lines containing "InstallDir" and "GameLauncherPath" with the path to the install folder for the first one and the path to the BF2.exe for the second one.

It should look like this:

"InstallDir"="\\path to\\your BF2 folder\\Battlefield 2"
"GameLauncherPath"="\\path to\\your BF2 folder\\bf2.exe"

And yes, the double slashes signs must be there. It's not a typo!

After you are done editing, save the file and go to your main Battlefield 2 folder (the one containing BF2.exe!), right click on an empty space and choose

open in terminal. Type in wine regedit (to be clear, you need Wine installed on your machine to do this, so make sure that wine is installed!) and press enter. You should now see the Registry Editor window. Now click on the "Registry" option on the top left, choose Import registry file and choose the reg_fix.reg file that we previously modified. You should get a message saying that everything went correctly. Click OK on that message and close the Registry Editor window and the terminal.

Now that we did all of this let's go back to the main Battlefield 2 folder, look for the "BF2KeyMan.exe", right click on it, choose open with Wine Windows Program Loader. Now you should see a "Battlefield 2 Key Manager" window. Click on "Random" and then "Apply". Now you can close the window.

The main maintenance is done so it's time to play the game! :^D

Open Faugus Launcher, click on the "+" button on the bottom left, fill in the informations on Title (put a game title there like BF2 or Battlefield 2) and Path (click on the magnifying glass and point the path to the BF2.exe file).

1) If you want to play with the AIX mod enabled:

Add +modPath mods/aix2 in the Game Arguments section of Faugus Launcher for BF2.exe

P.S: The game might crash when you launch an AIX instance for the first time after selecting Quick Play. Don't worry. At the second launch the game will

ask you to choose a profile. Choose "defaultPlayer" and after that the AIX version of the game should work just fine. I was able to play several offline matches with bots in various maps with no crashes!

2) If you want to play the standard BF2:

Remove +modPath mods/aix2 in the Game Arguments section of Faugus Launcher for BF2.exe

P.S: I used the Proton-CachyOS Latest (default) under "Proton" option to play the game.

That's it! I know it looks like a lot, but it won't take too long. I was able to do all this in less than 10 minutes with my limited Linux Mint knowledge.